



K.S. School of Engineering and Management
DEPARTMENT OF COMPUTER SCIENCE & ENGG.

VI A SEC

ELECTIVE DETAILS OF VII SEM - ODD SEM

SL. NO.	USN	NAME OF THE STUDENT	Professional Elective-2	Professional Elective-3	Open Elective - B	SIGNATURE
1	1KG19CS001	A C PRAVEEN CHOWDARY	18CS734	18CS744	18ME751	<i>Praveen</i>
2	1KG19CS002	ABHISHEK A PATIL	18CS734	18CS744	18ME751	<i>Abhishek</i>
3	1KG19CS003	AJAY KUMAR J	18CS734	18CS744	18ME751	<i>Ajay J</i>
4	1KG19CS004	ANNAMALY MUDI BHARATH	18CS734	18CS744	18ME751	<i>A.R.M.</i>
5	1KG19CS005	ANUSHA G S	18CS734	18CS744	18ME751	<i>Anusha G S</i>
6	1KG19CS006	ANUSHA S	18CS734	18CS744	18ME751	<i>Anusha S</i>
7	1KG19CS007	ARJUN M	18CS734	18CS744	18ME751	<i>Arjun M</i>
8	1KG19CS008	ARSHITHA K	18CS734	18CS744	18ME751	<i>Arshitha K</i>
9	1KG19CS009	BHARGAV M	18CS734	18CS744	18ME751	<i>Bhargav M</i>
10	1KG19CS010	BHAVANA M REDDY	18CS734	18CS744	18ME751	<i>Bhava</i>
11	1KG19CS011	BHUVANA H				
12	1KG19CS012	BHUVANASHRI K B	18CS734	18CS744	18ME751	<i>Bhuvanashri K B</i>
13	1KG19CS013	BOPANNA M T	18CS734	18CS744	18ME751	<i>Bopanna</i>
14	1KG19CS014	BRUNDHA K	18CS734	18CS744	18ME751	<i>Brundha K</i>
15	1KG19CS015	C RAMESH CHANDRA	18CS734	18CS744	18ME751	<i>C. Ramesh</i>
16	1KG19CS016	C SAI RANGANATH	18CS734	18CS744	18ME751	<i>C-Sai</i>
17	1KG19CS017	CHAITHRA SHETTY S	18CS734	18CS744	18ME751	<i>Chaithra</i>
18	1KG19CS018	CHANDANA K	18CS734	18CS744	18ME751	<i>Chandana K</i>
19	1KG19CS019	CHETAN RAJU P H	18CS734	18CS744	18ME751	<i>Chetan</i>
20	1KG19CS020	D RAKSHITHA	18CS734	18CS744	18ME751	<i>D.Rakshitha</i>
21	1KG19CS021	DAMINI DEVADIGA	18CS734	18CS744	18ME751	<i>Damini</i>
22	1KG19CS022	DEEPA S RAO	18CS734	18CS744	18ME751	<i>Deepa S</i>
23	1KG19CS023	DEEPAK C D	18CS734	18CS744	18ME751	
24	1KG19CS024	DEEPIKA P N	18CS734	18CS744	18ME751	<i>Deepika</i>
25	1KG19CS025	DHANUSH VASUDEVARAJU	18CS734	18CS744	18ME751	<i>Dhanush</i>
26	1KG19CS026	DINESH M	18CS734	18CS744	18ME751	<i>Dinesh M</i>
27	1KG19CS027	DIVYA M	18CS734	18CS744	18ME751	<i>Divya</i>
28	1KG19CS028	DIVYA V P	18CS734	18CS744	18ME751	<i>Divya V P</i>
29	1KG19CS029	DOMA GIRI BABU	18CS734	18CS744	18ME751	<i>Giribabu</i>
30	1KG19CS030	GAGANA M	18CS734	18CS744	18ME751	<i>Gagan M</i>
31	1KG19CS031	GANTA ROHITH REDDY	18CS734	18CS744	18ME751	
32	1KG19CS032	GAURAV G	18CS734	18CS744	18ME751	<i>Gaurav</i>
33	1KG19CS033	GAURAV V N	18CS734	18CS744	18ME751	<i>GVS</i>
34	1KG19CS034	GAUTHAMI N P	18CS734	18CS744	18ME751	<i>Gauthami</i>
35	1KG19CS036	HARSHITHA B C	18CS734	18CS744	18ME751	<i>Harshitha</i>
36	1KG19CS037	HARSITH S	18CS734	18CS744	18ME751	<i>Harsith S</i>
37	1KG19CS038	HOMADEEP G	18CS734	18CS744	18ME751	<i>Homadeep G</i>
38	1KG19CS039	JANHAVI C	18CS734	18CS744	18ME751	<i>Janhavi C</i>

SL. NO.	USN	NAME OF THE STUDENT	Professional Elective-2	Professional Elective-3	Open Elective - B	SIGNATURE
39	1KG19CS040	K B LIKITHA	18CS734	18CS744	18ME751	<i>[Signature]</i>
40	1KG19CS041	KANTAM LALITHYA	18CS734	18CS744	18ME751	<i>[Signature]</i>
41	1KG19CS042	L DURGA PRASAD	18CS734	18CS744	18ME751	<i>[Signature]</i>
42	1KG19CS043	LIKITH SAI KIRAN	18CS734	18CS744	18ME751	<i>[Signature]</i>
43	1KG19CS044	MC INDU	18CS734	18CS744	18ME751	<i>[Signature]</i>
44	1KG19CS045	M J MOHIT KUMAR	18CS734	18CS744	18ME751	<i>[Signature]</i>
45	1KG19CS046	MADAMANCHI NARMADA	18CS734	18CS744	18ME751	<i>[Signature]</i>
46	1KG19CS047	MANOJ G	18CS734	18CS744	18ME751	<i>[Signature]</i>
47	1KG19CS048	MEKA SAI PRASANNA KUMAR	18CS734	18CS744	18ME751	<i>[Signature]</i>
48	1KG19CS049	MODALA CHETAN	18CS734	18CS744	18ME751	<i>[Signature]</i>
49	1KG19CS050	MOHAMMED AMEENULLA Z	18CS734	18CS744	18ME751	<i>[Signature]</i>
50	1KG19CS051	MOHAMMED HUZAF	18CS734	18CS744	18ME751	<i>[Signature]</i>
51	1KG19CS052	MOHIT SINGH	18CS734	18CS744	18ME751	<i>[Signature]</i>
52	1KG19CS053	MONICA N	18CS734	18CS744	18ME751	<i>[Signature]</i>
53	1KG19CS054	MONISH M	18CS734	18CS744	18ME751	<i>[Signature]</i>
54	1KG19CS055	MONISHA R	18CS734	18CS744	18ME751	<i>[Signature]</i>
55	1KG19CS058	NAMRATHA S	18CS734	18CS744	18ME751	<i>[Signature]</i>
56	1KG19CS059	NANDISH N	18CS734	18CS744	18ME751	<i>[Signature]</i>
57	1KG19CS060	NISHCHITHA HEBBAR N S	18CS734	18CS744	18ME751	<i>[Signature]</i>
58	1KG18CS031	DILIP R	18CS734	18CS744	18ME751	<i>[Signature]</i>
59	1KG18CS035	GAGAN M	18CS734	18CS744	18ME751	<i>[Signature]</i>
60	1KG18CS067	NISCHITHA D	18CS734	18CS744	18ME751	<i>[Signature]</i>
61	1KG20CS400	A.HARSHITH	18CS734	18CS744	18ME751	<i>[Signature]</i>
62	1KG20CS401	AYESHA	18CS734	18CS744	18ME751	<i>[Signature]</i>
63	1KG20CS402	HEMASHREE.G	18CS734	18CS744	18ME751	<i>[Signature]</i>

Elective Co-ordinator
[Signature]

HOD

[Signature]
HOD

Department of Computer Science Engineering
K.K.School of Engineering & Management
Bangalore-560109



CIRCULAR

Date: 15/07/2022

All the students are hereby informed that following are the open elective course offered by the departments for the semester 2022-23 Odd semester.

Department	Course offered		Faculty
	Subject code	Subject name	
Department of Civil Engineering	18CV753	Environmental protection and management	Dr Rashmi H R
Department of Mechanical Engineering	18ME751	Energy and Environment	Mr Prabhu K S
Department of Computer science	18CS752	Phython application programming	Mr Deepak M D Mrs Jayasubha J Mrs Nagaveni B Nimbal Mrs Nita Meshram
Department of Electronics and communication	18EC751	Communication theory	Dr Manu

Students are directed to register for any one of the above electives other than offered from the parent department. The registration should be done on or before 30 July 2022 in the parent department.

Syllabus is attached for further information

15.7.2022
Principal
15/7/22

CC to:

CSE

ECE

Civil

Mechanical

Electrical

Kohas
hmv - 15/7/22

W. X. Kelle

M. J.

15/7/2022

PYTHON APPLICATION PROGRAMMING
(OPEN ELECTIVE)
(Effective from the academic year 2018 -2019)
SEMESTER – VI

Course Code	18CS752	IA Marks	40
Number of Lecture Hours/Week	3:0:0	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03

CREDITS – 03

Course Learning Objectives: This course (18CS752) will enable students to

- Learn Syntax and Semantics and create Functions in Python.
- Handle Strings and Files in Python.
- Understand Lists, Dictionaries and Regular expressions in Python.
- Implement Object Oriented Programming concepts in Python
- Build Web Services and introduction to Network and Database Programming in Python.

Module – 1	Teaching Hours
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Why should you learn to write programs, Variables, expressions and statements, Conditional execution, Functions Textbook 1: Chapters 1 – 4 RBT: L1, L2, L3	08
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Module – 2 Iteration, Strings, Files Textbook 1: Chapters 5– 7 RBT: L1, L2, L3	08
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Module – 3 Lists, Dictionaries, Tuples, Regular Expressions Textbook 1: Chapters 8 - 11 RBT: L1, L2, L3	08
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Module – 4 Classes and objects, Classes and functions, Classes and methods Textbook 2: Chapters 15 – 17 RBT: L1, L2, L3	08
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Module – 5 Networked programs, Using Web Services, Using databases and SQL Textbook 1: Chapters 12– 13, 15 RBT: L1, L2, L3	08
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Course Outcomes: After studying this course, students will be able to

- Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
- Demonstrate proficiency in handling Strings and File Systems.
- Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
- Interpret the concepts of Object-Oriented Programming as used in Python.
- Implement exemplary applications related to Network Programming, Web Services and Databases in Python.

Question paper pattern:

- The question paper will have ten questions.
- Each full Question consisting of 20 marks

COMMUNICATION THEORY

Course Code	: 18EC751	CIE Marks	:40
Lecture Hours/Week	: 03	SEE Marks	:60
Total Number of Lecture Hours	: 40 (08 Hrs / Module)	Exam Hours	:03
CREDITS – 03			

Course Learning Objectives: This course will enable students to:

- Describe essential elements of an electronic communications.
- Understand Amplitude, Frequency & Phase modulations, and Amplitude demodulation.
- Explain the basics of sampling and quantization.
- Understand the various digital modulation schemes.
- The concepts of wireless communication.

Module-1

Introduction to Electronic Communications: Historical perspective, Electromagnetic frequency spectrum, signal and its representation, Elements of electronic communications system, primary communication resources, signal transmission concepts, Analog and digital transmission, Modulation, Concept of frequency translation, Signal radiation and propagation
(Text 1: 1.1 to 1.10)

L1, L2

Module-2

Noise: Classification and source of noise (TEXT 1:3.1)

Amplitude Modulation Techniques: Types of analog modulation, Principle of amplitude modulation, AM power distribution, Limitations of AM,
(TEXT 1: 4.1,4.2, 4.4, 4.6)

Angle Modulation Techniques: Principles of Angle modulation, Theory of FM-basic Concepts, Theory of phase modulation (TEXT 1: 5.1,5.2, 5.5)

Analog Transmission and Reception: AM Radio transmitters, AM Radio Receivers
(TEXT 1:6.1,6.2)

L1, L2

Module-3

Sampling Theorem and pulse Modulation Techniques: Digital Versus analog Transmissions, Sampling Theorem, Classification of pulse modulation techniques, PAM, PWM, PPM, PCM, Quantization of signals
(TEXT 1: 7.1 to 7.8)

L1, L2

Module-4

Digital Modulation Techniques: Types of digital Modulation, ASK,FSK,PSK,QPSK

(TEXT 1: 9.1 to 9.5)

Source and Channel Coding: Objective of source coding, source coding technique, Shannon's source coding theorem, need of channel coding, Channel coding theorem, error control and coding

(TEXT 1: 11.1 to 11.3, 11.8, 11.9,11.12)

L1, L2

Module-5

Evolution of wireless communication systems: Brief History of wireless communications, Advantages of wireless communication, disadvantages of wireless communications, wireless network generations, Comparison of wireless systems, Evolution of next-generation networks, Applications of wireless communication

(TEXT 2: 1.1 to 1.7)

Principles of Cellular Communications: Cellular terminology, Cell structure and Cluster, Frequency reuse concept, Cluster size and system capacity, Method of locating cochannel cells, Frequency reuse distance

(TEXT 2: 4.1 to 4.7)

L1, L2

Course Outcomes: At the end of the course, students will be able:

1. Describe operation of communication systems.
2. Understand the techniques of Amplitude and Angle modulation.
3. Understand the concept of sampling and quantization.
4. Understand the concepts of different digital modulation techniques.
5. Describe the principles of wireless communications system.

Question paper pattern:

- Examination will be conducted for 100 marks with question paper containing 10 full questions, each of 20 marks.
- Each full question can have a maximum of 4 sub questions.
- There will be 2 full questions from each module covering all the topics of the module.
- Students will have to answer 5 full questions, selecting one full question from each module.
- The total marks will be proportionally reduced to 60 marks as SEE marks is 60.

B. E. CIVIL ENGINEERING
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)
SEMESTER - VII

ENVIRONMENTAL PROTECTION AND MANAGEMENT

Course Code	18CV753	CIE Marks	40
Teaching Hours/Week(L:T:P)	(3:0:0)	SEE Marks	60
Credits	3	Exam Hours	03

Course Learning Objectives: This course will enable students to gain knowledge in Environmental protection and Management systems

Module -1

Environmental Management Standards: Unique Characteristics of Environmental Problems - Systems approach to Corporate environmental management - Classification of Environmental Impact Reduction Efforts - Business Charter for Sustainable Production and Consumption – Tools, Business strategy drivers and Barriers - Evolution of Environmental Stewardship. Environmental Management Principles - National policies on environment, abatement of pollution and conservation of resources - Charter on Corporate responsibility for Environmental protection.

Module -2

Environmental Management Objectives: Environmental quality objectives – Rationale of Environmental standards: Concentration and Mass standards, Effluent and stream standards, Emission and ambient standards, Minimum national standards, environmental performance evaluation: Indicators, benchmarking. Pollution control Vs Pollution Prevention - Opportunities and Barriers – Cleaner production and Clean technology, closing the loops, zero discharge technologies.

Module -3

Environmental Management System: EMAS, ISO 14000 - EMS as per ISO 14001– benefits and barriers of EMS – Concept of continual improvement and pollution prevention - environmental policy – initial environmental review – environmental aspect and impact analysis – legal and other requirements- objectives and targets – environmental management programs – structure and responsibility – training awareness and competence- communication – documentation and document control – operational control – monitoring and measurement – management review.

Module -4

Environmental Audit: Environmental management system audits as per ISO 19011- – Roles and qualifications of auditors - Environmental performance indicators and their evaluation – Non conformance – Corrective and preventive actions -compliance audits – waste audits and waste minimization planning – Environmental statement (form V) - Due diligence audit.

Module -5

Applications: Applications of EMS, Waste Audits and Pollution Prevention Control: Textile, Sugar, Pulp & Paper, Electroplating, , Tanning industry. Hazardous Wastes - Classification, characteristics Treatment and Disposal Methods, Transboundary movement, disposal.

Course outcomes: After studying this course, students will be able to:

1. Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards.
2. Lead pollution prevention assessment team and implement waste minimization options.
3. Develop, Implement, maintain and Audit Environmental Management systems for Organizations.

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

Reference Books:

1. Christopher Sheldon and Mark Yoxon, "Installing Environmental management Systems – a step by step guide" Earthscan Publications Ltd, London, 1999.
2. ISO 14001/14004: Environmental management systems – Requirements and Guidelines – International

B. E. MECHANICAL ENGINEERING
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

Open Elective-B (Semester VII)

ENERGY AND ENVIRONMENT

Course Code	18ME751	CIE Marks	40
Teaching Hours / Week (L:T:P)	3:0:0	SEE Marks	60
Credits	03	Exam Hours	03

Course Learning Objectives:

- To understand the fundamentals of energy sources, energy use, energy efficiency, and resulting environmental implications of various energy supplies.
- To introduce various aspects of environmental pollution and its control.
- To understand the causes and remedies related to social issues like global warming, ozone layer depletion, climate change etc.
- To introduce various acts related to prevention and control of pollution of water and air, forest protection act, wild life protection act etc.

Module-1

Basic Introduction to Energy: Energy and power, forms of energy, primary energy sources, energy flows, world energy production and consumption, Key energy trends in India: Demand, Electricity, Access to modern energy, Energy production and trade, Factors affecting India's energy development: Economy and demographics Policy and institutional framework, Energy prices and affordability, Social and environmental aspects, Investment.

Module-2

Energy storage systems: Thermal energy storage methods, Energy saving, Thermal energy storage systems
 Energy Management: Principles of Energy Management, Energy demand estimation, Energy pricing
 Energy Audit: Purpose, Methodology with respect to process Industries, Characteristic method employed in *Certain Energy Intensive Industries*

Module-3

Environment: Introduction, Multidisciplinary nature of environmental studies- Definition, scope and importance, Need for public awareness.
 Ecosystem: Concept, Energy flow, Structure and function of an ecosystem. Food chains, food webs and ecological pyramids, Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems, Ecological succession.

Module-4

Environmental Pollution: Definition, Cause, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards, Solid waste Management, Disaster management Role of an individual in prevention of pollution, Pollution case studies.

Module-5

Social Issues and the Environment: Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies. Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation.

Group assignments:

Assignments related to e-waste management; Municipal solid waste management; Air pollution control systems; Water treatment systems; Wastewater treatment plants; Solar heating systems; Solar power plants; Thermal power plants; Hydroelectric power plants; Biofuels; Environmental status assessments; Energy status assessments etc.

Course Outcomes: At the end of the course, the student will be able to:



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT - 560 062

Department of Civil Engineering
Academic year: 2022-2023 (Odd Semester)

Date: 25/07/2022

Semester: - VII

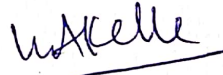
Subject: - Communication theory (18EC751)

Offered by: - Department of Electronics and communication

List of students opted open elective offered by Department of Electronics and communication.

Sl No	USN	STUDENT NAME
1	1KG20CV407	NAVEEN KUMAR S


Signature of the Coordinator


Head of the Department

25/7/2022

Professor & Head
Dept. of Civil Engineering
K.S. Group of Institutions
K.S. School of Engineering & Management
Bangalore-560 062





K. S. SCHOOL OF ENGINEERING AND MANAGEMENT - 560 062

Department of Civil Engineering
Academic year: 2022-2023 (Odd Semester)

Date: 25/07/2022

Semester: - VII

Subject: - Python application programming (18CS752)

Offered by: - Department of Computer science

List of students opted open elective offered by Department of Computer science.

SI No	USN	STUDENT NAME
1	1KG20CV400	ARJUNGOWDA D N

Pashmi-H.R
Signature of the Coordinator

Wakelle
Head of the Department
25/7/2022

Monisha.S

Professor & Head
Dept. of Civil Engineering
K.S. Group of Institutions
K.S. School of Engineering & Management
Bangalore-560 062



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT - 560 062

Department of Civil Engineering

Academic year: 2022-2023 (Odd Semester)

Date: 25/07/2022

Semester: - VII

Subject: - Energy and Environment (18ME751)

Offered by: - Department of Mechanical Engineering


List of students opted open elective offered by Department of Mechanical Engineering.

SI No	USN	STUDENT NAME
1	1KG17CV011	GURUPRASHANTH M
2	1KG18CV005	BANASHREE B
3	1KG18CV006	CHETHAN M
4	1KG18CV009	K N UDAY
5	1KG18CV010	L SUHAS
6	1KG18CV018	R C RAMACHANDRA GOWDA
7	1KG18CV024	SANTHOSH KUMAR D
8	1KG19CV001	A CHARAN
9	1KG19CV002	BHARATH S KADAM
10	1KG19CV004	H SRINITISH
11	1KG19CV005	HARSHITHA S
12	1KG19CV006	KEERTHANA L
13	1KG19CV007	L LOKESH CHOWDARY
14	1KG19CV009	MAMRUTHA M
15	1KG19CV012	MOHAMMED SHOAIB AHMED
16	1KG19CV013	NISHCHITHA N
17	1KG19CV014	P VIJAY
18	1KG19CV015	PKEETHI P
19	1KG19CV017	SALMAN BASHIR
20	1KG19CV018	SAMARTHA S
21	1KG19CV019	SIDDANNA GCUA
22	1KG19CV020	SIDDHARTHA S
23	1KG19CV021	SKANDA N
24	1KG19CV022	SUHAIL ALTA F DAR
25	1KG19CV023	SUNEEL NINGANAGOUDA PATIL
26	1KG19CV024	UMESII KUMAR SINGH
27	1KG20CV401	BHARGAV M

28	1KG20CV402	JAYAPRASAD YADAV
29	1KG20CV403	KARTHICK NAIDU A
30	1KG20CV404	KISHORE S
31	1KG20CV405	KRISHNAPRASAD
32	1KG20CV406	MONISHA R P
33	1KG20CV408	PRAJWAL L V
34	1KG20CV409	RAJULA SAI JITHIN
35	1KG20CV410	RANJITHA P M
36	1KG20CV411	SADASHIVA M
37	1KG20CV412	SANDESH K N
38	1KG20CV413	SHWETHA M A
39	1KG20CV414	SRINIDHI G JOSHI
40	1KG20CV415	VINODH M


Signature of the Coordinator




Head of the Department
25/7/2022

Professor & Head
Dept. of Civil Engineering
K.S. Group of Institutions
K.S. School of Engineering & Management
Bangalore-560062



CIRCULAR

Date: 15/07/2022

All the students are hereby informed that following are the open elective course offered by the departments for the semester 2022-23 Odd semester.

Department	Course offered		Faculty
	Subject code	Subject name	
Department of Civil Engineering	18CV753	Environmental protection and management	Dr Rashmi H R
Department of Mechanical Engineering	18ME751	Energy and Environment	Mr Prabhu K S
Department of Computer science	18CS752	Python application programming	Mr Deepak M D Mrs Jayasubha J Mrs Nagaveni B Nimbal Mrs Nita Meshram
Department of Electronics and communication	18EC751	Communication theory	Dr Manu

Students are directed to register for any one of the above electives other than offered from the parent department. The registration should be done on or before 30 July 2022 in the parent department.

Syllabus is attached for further information

CC to:

CSE

ECE

Civil

Mechanical

Electrical

K. S. Rama Narasimha
15/7/22

W. K. S. S. S.

15/7/22

15/7/2022

15. Rama
Principal
15/7/22

Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

K S School of Engineering and Management

Department of Electronics and Communication Engineering

Open Elective:Energy and Environment(18ME751)

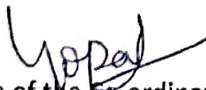
Academic year 2022-23(ODD Semester)

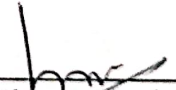
List of ECE students opted open elective offered from Dept. of Mechanical Engineering

Sl.No	Name of the student	USN	Contact Number	Signature
1	V Bharath Kumar	1KG17EC088	9441173548	
2	Maheshwari. Av	1KG18EC031	7483924589	
3	Aafiya Kulsoom	1KG19EC001	8861433172	
4	Amrit Sarkar	1KG19EC002	6295467089	
5	Anipakula Geervani	1KG19EC004	9160365033	
6	Anjali. M	1KG19EC006	8088485751	
7	Bana Sudheer Kumar Reddy	1KG19EC010	9392404545	
8	Bhagyalakshmi JH	1KG19EC011	7975047646	
9	Bhavana S	1KG19EC013	7353171325	
10	Bindhu Shree R	1KG19EC015	6363333106	
11	C Girishma Sai	1KG19EC016	7093510010	
12	Chaitra.S	1KG19EC017	8088788291	
13	Chandini P	1KG19EC018	7022867915	
14	Charitha P Loganathan	1KG19EC019	8296339002	
15	Deepthi Sshrie RH	1KG19EC022	8951847913	
16	Dhanush M	1KG19EC025	9900725475	
17	Prathyusha Dharmavarapu	1KG19EC026	9390811422	
18	Dheeraj M	1KG19EC027	7019570966	
19	G.Satheesh	1KG19EC030	7094609965	
20	Goalla Likhitha	1KG19EC033	9603060425	
21	Gowthami S	1KG19EC035	7349143180	
22	Harshith Kumar Km	1KG19EC039	9740881260	
23	Kavya Sree	1KG19EC041	6305412647	
24	Jahnavi Ramakrishna	1KG19EC042	9686488188	
25	K Bharath	1KG19EC044	7893097432	
26	Kakarla Sai Abhiram	1KG19EC046	7022960030	
27	Karuna.S	1KG19EC048	9535476722	
28	Kavya C	1KG19EC049	6360925388	
29	Kavya S E	1KG19EC050	7337711226	
30	Keerthana B R	1KG19EC051	9739671039	
31	Sharath Chandra Kovi	1KG19EC052	7330728681	
32	Lavanya B V	1KG19EC053	8971849187	
33	Lingutla Tarun Kumar	1KG19EC054	9100488485	
34	Madan C B	1KG19EC056	9845365967	
35	Dileep Malapati	1KG19EC057	8790995023	
36	Manam Teja	1KG19EC058	8310040639	
37	Manjunath.M	1KG19EC059	7899089304	
38	Modupalli Pavan Kumar	1KG19EC060	7993674470	
39	Monika V G	1KG19EC062	9398926596	



40	Mahesh Narra	1KG19EC064	6304515430	
41	Navya S	1KG19EC065	8971610659	
42	Niriksha V Murthy	1KG19EC067	8277674681	
43	Nithin L	1KG19EC068	8310903080	
44	Pavan K	1KG19EC070	8217728719	
45	Pokuri Pavani	1KG19EC071	8374207281	
46	Pooja A B	1KG19EC072	7026970216	
47	Prajwal S K	1KG19EC073	8431639103	
48	Pramod.R	1KG19EC074	8867401956	
49	Prashanth G	1KG19EC075	9353786870	
50	Prashanth S	1KG19EC076	7892061421	
51	Prathyusha	1KG19EC077	8431290678	
52	Pratyush Kumar	1KG19EC078	9958734766	
53	R Sasikala	1KG19EC080	9618109421	
54	Raghu R	1KG19EC081	7348811106	
55	Rajdeep Sai	1KG19EC082		
56	Sagar B T	1KG19EC083	9886631649	
57	Saicharitha Y	1KG19EC084	9353733662	
58	Samarth Srinivas	1KG19EC085	8088348126	
59	Shree Raksha H	1KG19EC087	7349525941	
60	Shubha M	1KG19EC088	9380566744	
61	Sireesha. R	1KG19EC089	9535784458	
62	Sneha B	1KG19EC090	9900159685	
63	Steffi K Thomas	1KG19EC091	8088149450	
64	Sudeep G R	1KG19EC092	7022573917	
65	Suma B L	1KG19EC093	9513038567	
66	Surabhi N	1KG19EC094	7619166245	
67	Towqeer Madni	1KG19EC097	7889841418	
68	Vaishnavi U P	1KG19EC098	8971508332	
69	Anil Kumar	1KG19EC099	9381684879	
70	Dheva	1KG20EC400	9901109298	
71	Shivani K Patil	1KG20EC401	9606255852	


Signature of the Co-ordinator


Signature of the HOD
Professor & Head
Dept. of Electronics & Communication Engineering,
K. S. School of Engineering & Management
Bangalore-560 109

K S School of Engineering and Management

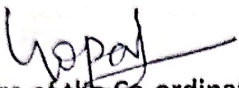
Department of Electronics and Communication Engineering

Open Elective:PYTHON APPLICATION PROGRAMMING(18CS752)

AC- 2022-23(ODD Semester)

List of ECE students opted open elective offered from Dept. of Computer Science Engineering

Sl.No	Name of the student	USN	Contact Number	Signature
1	Bheemesh Jetti	1KG19EC043		

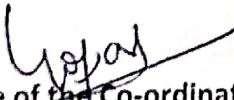

Signature of the Co-ordinator

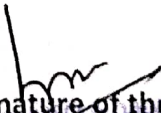

Signature of the HOD
Dept. of Electronics & Communication Engineering
K. S. School of Engineering & Management
Bangalore-560 109

K S School of Engineering and Management
Department of Electronics and Communication Engineering
Academic Year-2022-23

Open Elective:ENVIRONMENTAL PROTECTION AND MANAGEMENT(18CV753)
List of ECE students opted open elective offered from Dept. of Civil Engineering

Sl.No	Name of the student	USN	Contact Number	Signature
1	Anirudh G	1KG19EC005	8088298593	
2	Ankush B L	1KG19EC007	7019205092	
3	B Gowtham	1KG19EC008	7022366617	
4	B. Lokesh Babu	1KG19EC009	9361483820	
5	Bharath Kumar R	1KG19EC012	7259641395	
6	Bhuvan S	1KG19EC014	7338007202	
7	Chirag S	1KG19EC020	8884980307	
8	Yaswanth D	1KG19EC021	9100783796	
9	D. Pavan Kumar	1KG19EC023	8317640344	
10	Dhanush K	1KG19EC024	9739643424	
11	Dhureen L	1KG19EC028	8088250869	
12	Durga Prasad G	1KG19EC029	6363939920	
13	Gagan Sagar K M	1KG19EC031	6360362161	
14	Gogineni Gambhir	1KG19EC034	9481419331	
15	B Hari Prasath	1KG19EC037	6380158008	
16	Harish Kashyap	1KG19EC038	6361367692	
17	K Santhiswaroop	1KG19EC045	7337028977	
18	K Sohith	1KG19EC047	6302369063	
19	M.Tharun	1KG19EC055	8247783013	
20	P. Divakar	1KG19EC069	7893685614	
21	R J Yaswanth	1KG19EC079	9100250614	
22	Santosh Kumar	1KG19EC086	6360195889	
23	T Harish	1KG19EC095	6301877918	
24	Thota Mohan Babu	1KG19EC096	9573052029	
25	Tharun	1KG18EC002	6360590751	
26	Girisala Adrsha Naidu	1KG19EC032	9701095882	


Signature of the Co-ordinator


Signature of the HOD
Dept. of Electronics & Communication Engin
K. S. School of Engineering & Management
Bangalore-560 109


KSSEM


K. S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF MANAGEMENT STUDIES
SESSION: 2022-2023 (ODD Semester)
III SEMESTER, MBA (Batch: 2021-23)
Specialisation Chosen for 2nd Year MBA

Sl. No	USN	STUDENTS NAME	Specialisation Chosen by Students
1	1KG21BA001	AMITH ROY	Finance & Marketing
2	1KG21BA002	AMRUTHA T R	Finance & Marketing
3	1KG21BA003	ANJAN GOWDA K G	Finance & Marketing
4	1KG21BA004	ANUSHA S	Finance & HR
5	1KG21BA005	B NAVEEN	Finance & Marketing
6	1KG21BA006	BHAGYASHREE A S	Finance & HR
7	1KG21BA007	BHARGAV R	Finance & Marketing
8	1KG21BA008	BHAVYA M	Finance & HR
9	1KG21BA009	C PAVANA	Finance & Marketing
10	1KG21BA010	DURGAPRASAD K C	Finance & Marketing
11	1KG21BA011	GREESHMA CS	Finance & Marketing
12	1KG21BA013	HEMANTH RAJ S	Finance & Marketing
13	1KG21BA014	K BINDHU	Marketing & HR
14	1KG21BA015	K LIKITHASHREEE	Finance & HR
15	1KG21BA016	KANCHANA M	Finance & HR
16	1KG21BA017	KASTURI M JYAHNAVI	Marketing & HR
17	1KG21BA018	LANCHANA N	Marketing & HR
18	1KG21BA019	MADHU S	Marketing & HR
19	1KG21BA020	MANJUNATH P	Finance & HR
20	1KG21BA021	MOHAMMED FAROOQUE	Finance & Marketing
21	1KG21BA022	MOHAN KUMAR K V	Finance & HR
22	1KG21BA023	NADEEP D	Marketing & HR
23	1KG21BA024	NANDEESH B	Finance & HR
24	1KG21BA025	NAVEEN RAJ S	Marketing & HR
25	1KG21BA026	NIREESHA V S	Finance & Marketing
26	1KG21BA027	PRASHANTH N	Finance & Marketing
27	1KG21BA028	PREMALATHA M K	Finance & Marketing
28	1KG21BA029	PRIYANKA P S	Finance & Marketing
29	1KG21BA030	RANJUSHREE T S	Finance & Marketing
30	1KG21BA031	RATHAN M	Finance & HR

31	1KG21BA032	ROHAN B G	Marketing & HR
32	1KG21BA033	SANDHYA R	Finance & HR
33	1KG21BA034	SANJANA S	Marketing & HR
34	1KG21BA035	SANJAY K	Finance & HR
35	1KG21BA036	SHASHIKUMAR M	Finance & Marketing
36	1KG21BA037	SHRI HARI M	Finance & Marketing
37	1KG21BA038	SHWETHA T R	Finance & HR
38	1KG21BA039	SINDHU S	Finance & Marketing
39	1KG21BA040	SNEHA R	Finance & HR
40	1KG21BA041	SOUNDARYA RANI J R	Finance & HR
41	1KG21BA042	SOWMYA D	Finance & HR
42	1KG21BA043	SUMANTH R	Finance & HR
43	1KG21BA044	SURAJ R NAYAR	Marketing & HR
44	1KG21BA045	THANUJA K	Finance & HR
45	1KG21BA046	THANUSHA S	Marketing & HR
46	1KG21BA047	VARSHITHA K	Finance & HR
47	1KG21BA048	VIJAY K	Finance & HR
48	1KG21BA049	YASHASWINI K	Marketing & HR
49	1KG21BA050	YASHASWINI N	Finance & HR
50	1KG21BA051	DEEPAK RV	Finance & Marketing
51	1KG21BA052	MANOJ KUMAR R	Finance & Marketing
52	1KG21BA053	ROHITH M	Finance & Marketing
53	1KG21BA054	GURUPRASAD M	Finance & Marketing
54	1KG21BA055	M CHINMAYAADITYA	Finance & Marketing
55	1KG21BA056	NEELA. S	Finance & HR
56	1KG21BA057	RAKSHITH KUMAR S	Marketing & HR
57	1KG21BA058	SHREYAS S JOIS	Marketing & HR
58	1KG21BA059	SREENATH K P	Marketing & HR
59	1KG21BA060	YASHAVANTHA V M	Finance & Marketing


Coordinator
Mrs. Arundathi K L


HOD - MBA
Dr. Shekar H S
Professor & HOD-MBA,
K.S School of Engineering & management,
#15, Mallasandra, Off. Kanakapura Road
Bengaluru - 560 109.


Principal/Director
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109



CIRCULAR

Date: 27/01/2023

All the students are hereby informed that following are the open elective course offered by the departments for the semester 2022-23 even semester.

Department	Course offered		
	Subject code	Subject name	Handled By
Department of Civil Engineering	18CV656	Conservation of natural resources	Dr. Rashmi H R
Department of Mechanical Engineering	18ME651	Non-Conventional energy sources	Vinod A
	18ME653	Supply Chain Management	Harsha J
Department of Computer science	18CS653	Programming in JAVA	Nagaveni Numbal
	18CS654	Introduction to Operating System	Belji T
Department of Electronics and communication	18EC654	Microcontroller	Gopalakrishnamurthy C R

Cc to:

1. HOD, CV
2. HOD, CS
3. HOD, EC
4. HOD, ME

Forwarded to class Teachers ✓
Sem 1 T. Rama
Principal
27/1/23
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Mana
Bengaluru - 560 109
Unk. R. 27/01/23



KSSEM
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Kammavari Sangham (R) 1952

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DEPARTMENT OF MECHANICAL ENGINEERING

ELECTIVE SUBJECT FOR VI SEMESTER

SESSION: 2022-2023 (EVEN SEMESTER)

Date: 23rd January 2023

Circular

All the students of V semester are hereby informed to provide the elective subjects preferences for the VI semester in the attached sheet by 23/1/2023.

List of electives are given below for your information.

SEMESTER	OPEN ELECTIVE - A	SUBJECT CODE	DEPARTMENT
VI	Conservation Of Natural Resources	18CV656	CIVIL
	Programming in JAVA	18CS653	CS
	Introduction to Operating System	18CS654	CS
	Microcontroller	18EC654	E&C

SEMESTER	PROFESSIONAL ELECTIVE - 4	SUBJECT CODE	DEPARTMENT
VI	Non-Traditional Machining	18ME641	ME
	Composite Materials Technology	18ME645	ME


Head of the Department 23/01/23



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DEPARTMENT OF MECHANICAL ENGINEERING

Option Entry for Open Elective

SI NO	USN	NAME	OPEN ELECTIVE - A			
			18CV656	18CS653	18CS654	18EC654
1	1KG19ME009	JEEVAN R	✓			
2	1KG19ME015	NAVEEN KUMAR R	✓			
3	1KG20ME001	JAYANTH G	✓			
4	1KG20ME002	L A JISHNU	✓			
5	1KG20ME003	MALLIMPATTU VINAY	✓			
6	1KG20ME005	NITHIN R	✓			
7	1KG20ME006	PRANAV VISHWANATH	✓			
8	1KG20ME007	PRATHWIN B R	✓			
9	1KG20ME008	SHREE HARI G	✓			
10	1KG20ME009	VISHNU H M	✓			
11	1KG21ME400	BHARATH KUMAR P	✓			
12	1KG21ME401	CHANDRAKANTH S	✓			
13	1KG21ME402	DARSHAN N	✓			
14	1KG21ME403	DARSHAN S	✓			
15	1KG21ME404	HARSHA L	✓			
16	1KG21ME406	MAHENDRA S	✓			
17	1KG21ME407	MALLIKARJUNA BUDIHAL	✓			
18	1KG21ME408	MANU KUMAR T R	✓			
19	1KG21ME409	MOHAMMED SAQUIB	✓			
20	1KG21ME410	MOHAN KRISHNA V	✓			
21	1KG21ME411	PAVAN G	✓			
22	1KG21ME412	PRAJWAL S	✓			
23	1KG21ME413	VITHESH S	✓			

Chelvi J S
Head of the Department 24/01/23



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DEPARTMENT OF MECHANICAL ENGINEERING

Option Entry for Professional Elective

Sl NO	USN	NAME	PROFESSIONAL ELECTIVE - 4	
			18ME641	18ME645
1	1KG19ME009	JEEVAN R	✓	
2	1KG19ME015	NAVEEN KUMAR R	✓	
3	1KG20ME001	JAYANTH G	✓	
4	1KG20ME002	L A JISHNU	✓	
5	1KG20ME003	MALLIMPATTU VINAY	✓	
6	1KG20ME005	NITHIN R	✓	
7	1KG20ME006	PRANAV VISHWANATH	✓	
8	1KG20ME007	PRATHWIN B R	✓	
9	1KG20ME008	SHREE HARI G	✓	
10	1KG20ME009	VISHNU H M	✓	
11	1KG21ME400	BHARATH KUMAR P	✓	
12	1KG21ME401	CHANDRAKANTH S	✓	
13	1KG21ME402	DARSHAN N	✓	
14	1KG21ME403	DARSHAN S	✓	
15	1KG21ME404	HARSHA L	✓	
16	1KG21ME406	MAHENDRA S	✓	
17	1KG21ME407	MALLIKARJUNA BUDIHAL	✓	
18	1KG21ME408	MANU KUMAR T R	✓	
19	1KG21ME409	MOHAMMED SAQUIB	✓	
20	1KG21ME410	MOHAN KRISHNA V	✓	
21	1KG21ME411	PAVAN G	✓	
22	1KG21ME412	PRAJWAL S	✓	
23	1KG21ME413	VITRESH S	✓	

Head of the Department

(Signature) 24/01/23



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT - 560 062

CIRCULAR

Date: 15/07/2022

All the students are hereby informed that following are the open elective course offered by the departments for the semester 2022-23 Odd semester.

Department	Course offered		Faculty
	Subject code	Subject name	
Department of Civil Engineering	18CV753	Environmental protection and management	Dr Rashmi H R
Department of Mechanical Engineering	18ME751	Energy and Environment	Mr Prabhu K S
Department of Computer science	18CS752	Python application programming	Mr Deepak M D Mrs Jayasubha J Mrs Nagaveni B Nimbal Mrs Nita Meshram
Department of Electronics and communication	18EC751	Communication theory	Dr Manu

Students are directed to register for any one of the above electives other than offered from the parent department. The registration should be done on or before 30 July 2022 in the parent department.

Syllabus is attached for further information

15.07.22
Principal
15/7/22

CC to:

CSE

ECE

Civil

Mechanical

B. E. MECHANICAL ENGINEERING
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

Open Elective-B (Semester VII)

ENERGY AND ENVIRONMENT			
Course Code	18ME751	CIE Marks	40
Teaching Hours / Week (L:T:P)	3:0:0	SEE Marks	60
Credits	03	Exam Hours	03
Course Learning Objectives:			
<ul style="list-style-type: none"> To understand the fundamentals of energy sources, energy use, energy efficiency, and resulting environmental implications of various energy supplies. To introduce various aspects of environmental pollution and its control. To understand the causes and remedies related to social issues like global warming, ozone layer depletion, climate change etc. To introduce various acts related to prevention and control of pollution of water and air, forest protection act, wild life protection act etc. 			
Module-1			
Basic Introduction to Energy: Energy and power, forms of energy, primary energy sources, energy flows, world energy production and consumption, Key energy trends in India: Demand, Electricity, Access to modern energy, Energy production and trade, Factors affecting India's energy development: Economy and demographics Policy and institutional framework, Energy prices and affordability, Social and environmental aspects, Investment.			
Module-2			
Energy storage systems: Thermal energy storage methods, Energy saving, Thermal energy storage systems Energy Management: Principles of Energy Management, Energy demand estimation, Energy pricing Energy Audit: Purpose, Methodology with respect to process Industries, Characteristic method employed in <i>Certain Energy Intensive Industries</i>			
Module-3			
Environment: Introduction, Multidisciplinary nature of environmental studies- Definition, scope and importance, Need for public awareness. Ecosystem: Concept, Energy flow, Structure and function of an ecosystem. Food chains, food webs and ecological pyramids, Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems, Ecological succession.			
Module-4			
Environmental Pollution: Definition, Cause, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards, Solid waste Management, Disaster management Role of an individual in prevention of pollution, Pollution case studies.			
Module-5			
Social Issues and the Environment: Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies. Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation.			
Group assignments:			
Assignments related to e-waste management; Municipal solid waste management; Air pollution control systems; Water treatment systems; Wastewater treatment plants; Solar heating systems; Solar power plants; Thermal power plants; Hydroelectric power plants; Biofuels; Environmental status assessments; Energy status assessments etc.			
Course Outcomes: At the end of the course, the student will be able to:			



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU-560109
DEPARTMENT OF MECHANICAL ENGINEERING

Open Elective List of 7th semester for AY 2022-23

18/7/2022

As per the circular date 15/07/2022 regarding the selection of the open elective from the 6th semester students for AY 2022-23 odd semester. Here by listed the details of the open electives opted by Mechanical engineering students.

Sl. No.	Name of the Student	USN	18CV753	18CS752	18EC751	Signature of Student
1	A BHANU VENKAT	1KG19ME001	YES		-	A. Bhanu Venkat
2	AMITH A S	1KG19ME002		YES	-	Amith A S
3	BHARGAVI B REDDY	1KG19ME003		YES	-	Bhargavi B Reddy
4	BOLLINENI PRUTHVI RAJ	1KG19ME004	YES		-	B. Pruthvi Raj
5	CHETHAN K	1KG19ME005		YES	-	Chethan K
6	GAGAN G R	1KG19ME006		YES	-	Gagan G R
7	GANGA REDDY D M	1KG19ME007		YES	-	Ganges
8	HARISH K	1KG19ME008		YES	-	Harish K
9	LOKESH A B	1KG19ME011		YES	-	Lokesh A B
10	MALAPATI RAVI TEJA	1KG19ME012	YES		-	M. Ravi Teja
11	MANU P B	1KG19ME013	YES		-	Manu P B
12	MOKSHA VARDHAN M J	1KG19ME014		YES	-	Moksha
13	PRADEEP A	1KG19ME016		YES	-	Pradeep A
14	RAJALAKSHMI VEERESH	1KG19ME017		YES	-	Rajalakshmi
15	SHRAVAN N P	1KG19ME018		YES	-	Shravan N P
16	SUNITH G	1KG19ME019		YES	-	Sunith G
17	VENKAT RAGHAVEN V S	1KG19ME020		YES	-	Venkat V S
18	AKSHAY KUMAR ARADHYA K	1KG20ME400	YES		-	Akshay K
19	CHETHAN A N	1KG20ME401	YES		-	Chethan A N
20	JAGADISH N	1KG20ME402	YES		-	Jagadish N
21	KARTHIK C	1KG20ME403	YES		-	Karthik C
22	MOHIK B	1KG20ME404	YES		-	Mohik B
23	RAGHAVENDRA K J	1KG20ME405	YES		-	Ragavendra K J

24	RAKSHITH R	1KG20ME406		YES		Rakshith R
25	SANTHOSH N	1KG20ME407	YES			Santhosh N
26	SHREE THILAK K V	1KG20ME408	YES			Shree Thilak
27	REDDY PRAKASH	1KG20ME409	YES			Prakash R

Signature of Head of Department *Chandru R* 20/7/22

Department Of Mechanical Engineering
K.S. Group Of Institutions
K.S. School Of Engineering & Management
Bangalore-560 109